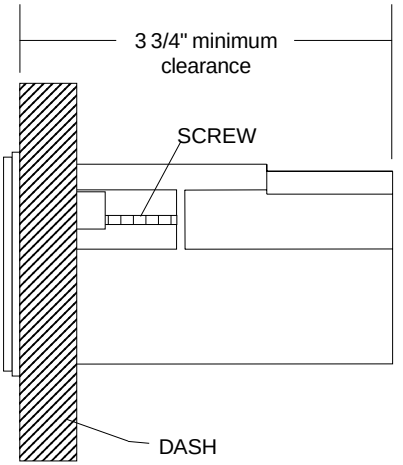
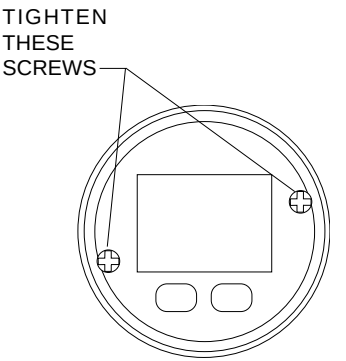
3500
Installation and Operation Instructions

The 3500 is a high-performance digital sonar. It works only off the bottom signal and it's operation is completely automatic. There are no sensitivity or noise controls. All of this is made possible by the computer built inside. This unit fits in a standard 2 1/8" (54 mm) hole used by most marine equipment manufacturers.

Mounting

The 3500 needs at least 2 1/2" (64 mm) of space to mount on any flat panel or dash. To install the unit, also make certain there is at least 3 3/4" (95 mm) from the *front* of the dash to any obstruction behind the dash. Check to be sure there is room to route the power and sensor cables. The *maximum* usable dash thickness is 1 1/8" (28.5 mm).





When you determine the location for the 3500, drill a 2 1/8" (54 mm) hole in the dash. Slide the 3500 through the hole from the front of the dash. Align it so that it's straight, then tighten the two screws with a phillips-head screwdriver.

CAUTION!

To prevent damage to the unit, DO NOT use a pneumatic/power screwdriver. Use a hand-held screwdriver and the torque should not exceed 7 in lbs. Also, when removing the unit, do not back the screws out of the case. Damage to the faceplate will result. We recommend backing off the screws one complete turn before attempting to remove the unit. If further loosening of the screws is required, do so in half-rotation increments.

Place the push-button into the holes in the bezel and snap it on to the 3500. The unit is now ready for wiring.

WIRING

Connect the wires as shown in the diagram on the next page. The 3500 operates from 10 to 15 vdc (12-volt system). You can connect the wires as shown in the diagram at the top of the page using two accessory switches (not included), which switches the unit's lights on separately from the power, or you can wire the lights to the power switch as shown at the bottom of the page. (The white wire on the power cable is connected to the lights.) Regardless of which wiring method you use, the 3500 must be wired to a 3-amp fuse! Failure to fuse this product will void the warranty and could result in damage to the unit or your boat.

The unit won't be harmed if the power wires are connected backwards, however, it won't work until they're properly connected.

Find a location for the speaker that is protected from the elements, but still lets you hear it. The typical mounting location is behind the dash. Make certain to wire the speaker's wires to the same color wires on the 3500's speaker cable - red to red and black to black. If the 3500's wires won't reach the speaker, splice ordinary speaker wire to them.

TRANSDUCER

The 3500 can use any Lowrance 192 kHz transducer with gray connectors. For the best performance, we recommend a transducer with a narrow (8°) cone angle. See your transducer owner's manual for installation instructions.

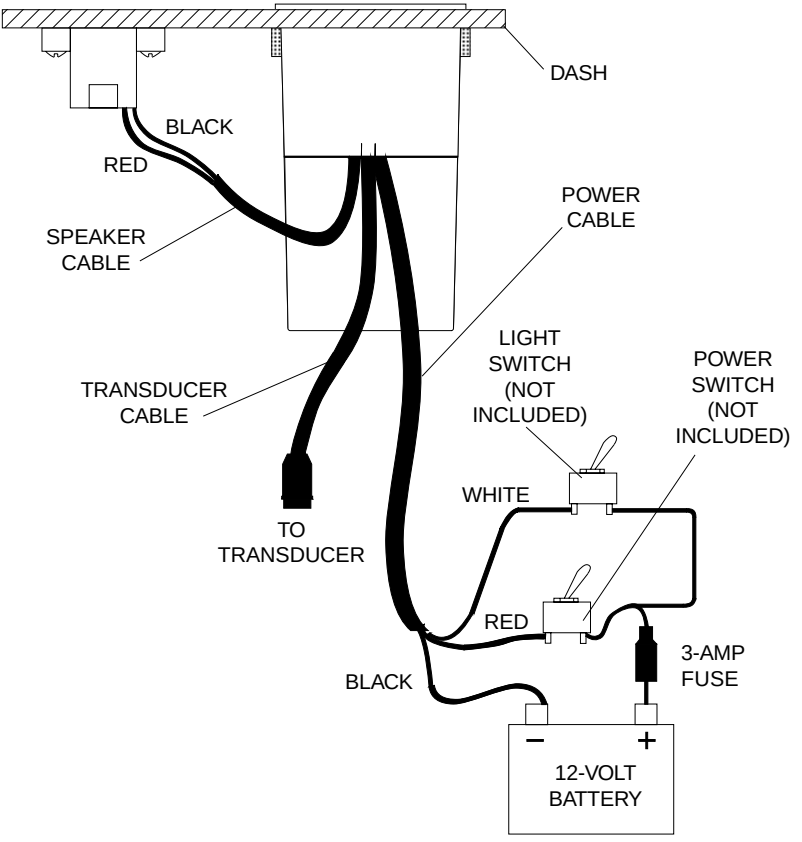
OPERATION

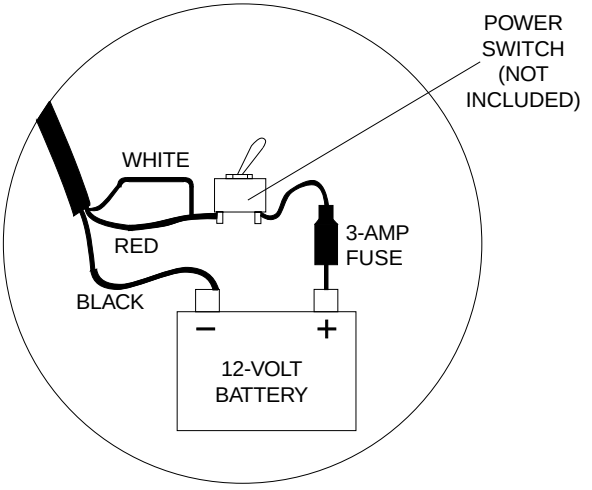
Since the 3500 is an automatic sonar, all you have to do is turn it's power on. It will give you a water depth reading within seconds. Once it finds the bottom, the 3500 locks onto it and automatically adjusts the sensitivity and noise suppression circuits. It will track the bottom at speeds over 70 m.p.h..

Feet/Meters

You can view the water depth in feet or meters. When the 3500 is first turned on, the depth is in feet. To change it to meters, simply press the left arrow key. To switch back to feet, press the left arrow key again. The display shows the depth in tenths of a foot when the water depth is below 100 feet. It shows the depth in tenths of a meter below 100 meters. The letters "FT" or "M" appear at the bottom of the display, depending if the unit is in feet (FT) or meters (M).

If the 3500 loses the bottom signal for any reason, it flashes the last known water depth until it reacquires the bottom signal.

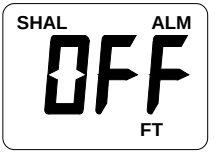

DASH
BLACK
RED
SPEAKER CABLE
POWER CABLE
LIGHT SWITCH (NOT INCLUDED)
POWER SWITCH (NOT INCLUDED)
TRANSDUCER CABLE
WHITE
TO TRANSDUCER
RED
3-AMP FUSE
BLACK
–
+
12-VOLT BATTERY


POWER SWITCH (NOT INCLUDED)
WHITE
RED
3-AMP FUSE
BLACK
–
+
12-VOLT BATTERY

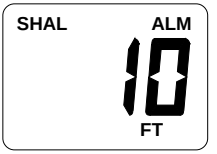
Alarms

The 3500 has both a shallow alarm and a deep alarm. The shallow alarm sounds if you move into water *shallower* than the shallow alarm's setting. The deep alarm sounds if you move into water *deeper* than the deep alarm's setting.

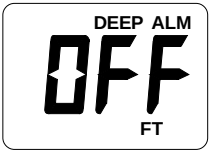
To use the shallow alarm, first press the up arrow key. The screen shown at right appears. As you can see, the shallow alarm is off. Quickly, press the up arrow key to increase the shallow alarm's setting.



In this example, we set the shallow alarm to 10 feet. Release the up arrow key and the 3500 automatically switches to the deep alarm as shown below.



If you want to set the deep alarm, press the up arrow key until the desired depth appears. When it does, release the up arrow key. Wait a few seconds, and the 3500 will erase the alarm display.



The alarms are now set. If you move into water shallower than the shallow alarm's setting or deeper than the deep alarm's setting, the appropriate alarm will sound.

While an alarm sounds, you can adjust it's setting by pressing the up or down arrow keys.

To turn an alarm off, repeat the above steps until the desired alarm appears, then press the down arrow key until the word "OFF" appears. Release the down arrow key and wait until the alarm messages are cleared from the display.

Note: The alarm settings are not stored in memory. If you turn the 3500 off, all alarm settings are erased. You will have to reenter the alarms each time it's turned on.

LOWRANCE ELECTRONICS
FULL ONE-YEAR WARRANTY

“We", “our”, or “us” refers to LOWRANCE ELECTRONICS, INC., the manufacturer of this product. “You” or “your” refers to the first person who purchases this product as a consumer item for personal, family, or household use.

We warrant this product against defects or malfunctions in materials and workmanship, and against failure to conform to this product’s written specifications, all for one year (1) from the date of original purchase by you. WE MAKE NO OTHER EXPRESS WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER CONCERNING THIS PRODUCT. Your remedies under this warranty will be available so long as you can show in a reasonable manner that any defect or malfunction in materials or workmanship, or any non-conformity with the product’s written specifications, occurred within one year from the date of your original purchase, which must be substantiated by a dated sales receipt or sales slip. Any such defect, malfunction, or non-conformity which occurs within one year from your original purchase date will either be repaired without charge or be replaced with a new product identical or reasonably equivalent to this product, at our option, within a reasonable time after our receipt of the product. If such defect, malfunction, or non-conformity remains after a reasonable number of attempts to repair by us, you may elect to obtain without charge a replacement of the product or a refund for the product. THIS REPAIR, REPLACEMENT, OR REFUND (AS JUST DESCRIBED) IS THE EXCLUSIVE REMEDY AVAILABLE TO YOU AGAINST US FOR ANY DEFECT, MALFUNCTION, OR NON-CONFORMITY CONCERNING THE PRODUCT OR FOR ANY LOSS OR DAMAGE RESULTING FROM ANY OTHER CAUSE WHATSOEVER. WE WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO ANYONE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR OTHER INDIRECT DAMAGE OF ANY KIND.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty does NOT apply in the following circumstances: (1) when the product has been serviced or repaired by anyone other than us, (2) when the product has been connected, installed, combined, altered, adjusted, or handled in a manner other than according to the instructions furnished with the product, (3) when any serial number has been effaced, altered, or removed, or (4) when any defect, problem, loss, or damage has resulted from any accident, misuse, negligence, or carelessness, or from any failure to provide reasonable and necessary maintenance in accordance with the instructions of the owner’s manual for the product.

We reserve the right to make changes or improvements in our products from time to time without incurring the obligation to install such improvements or changes on equipment or items previously manufactured.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

REMINDER: You must retain the sales slip or sales receipt proving the date of your original purchase in case warranty service is ever required.

LOWRANCE ELECTRONICS
12000 E. SKELLY DRIVE TULSA, OK 74128
(800) 324-1356

How to Obtain Service (Canadian Customers Only)

We back your investment in quality products with quick, expert service and genuine Lowrance replacement parts. If you need service or repairs, contact the Lowrance Factory Customer Service Department at the toll-free number listed below. A technician may be able to solve the problem and save you the inconvenience of returning your unit. You will be asked for your unit's serial number.

800-324-1356

Canada Only. Monday through Friday 8:00 A.M. - 8:00 P.M. Central Time.

When sending a product for repair, please do the following:

1. Always use the original shipping container and filler material the product was packed in when shipping your product.

2 Always insure the parcel against damage or loss during shipment. Lowrance does not assume responsibility for goods lost or damaged in transit.

3. For proper testing, repair, and service, send a brief note with the product describing the problem. Be sure to include your name, return shipping address, and a daytime telephone number.

How to Obtain Service (International Customers Only - Except Canada)

If you need service or repairs, contact the dealer in the country you purchased your unit.

WARRANTY REPAIR WILL BE HONORED ONLY IN THE COUNTRY UNIT WAS PURCHASED.

Please follow the shipping instructions shown below on this page if you have to mail your unit to the dealer. For proper testing, repair, and service, send a brief note with the product describing the problem. Be sure to include your name, return shipping address, and a daytime telephone number.

Accessory Ordering Information - All Countries

To order accessories such as power cables or transducers, please contact:

1. Your local marine dealer. Most quality dealers that handle marine electronic equipment should be able to assist you with these items. Consult your local telephone directory for listings.

2. Canadian customers only can write:
   Lowrance/Eagle Canada, 919 Matheson Blvd., E. Mississauga, Ontario L4W2R7
   or fax 416-629-3118

How to Obtain Service - U.S.A. Only

We back your investment in quality products with quick, expert service and genuine Lowrance® replacement parts. If you're in the United States and you have questions, please contact the Factory Customer Service Department using our toll-free number listed below. You must send the unit to the factory for warranty service or repair. Please call the factory before sending the unit. You will be asked for your unit's serial number. Use the following toll-free number:

800-324-1356

Your unit is covered by a full one-year warranty. (See page 5 for complete warranty details.) If your unit fails and the failure is not covered by the original warranty, Lowrance has a flat-rate repair policy that covers your unit and accessories packed with the unit at the factory. There is a 180-day warranty on all non-warranty repairs from the factory, which is similar to the original warranty, but is for 180 days rather than one year. For further details, please call us at the above number.

Accessory Ordering Information - U.S.A. Only

To order accessories such as power cables or transducers, please contact:

1) Your local marine dealer. Most quality dealers that handle marine electronic equipment should be able to assist you with these items. Consult your local telephone directory for listings.

2) LEI Extras, Inc. P.O. Box 129 Catoosa, OK 74015-0129
www.lei-extras.com
or call
800-324-0045
(USA orders only.)

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